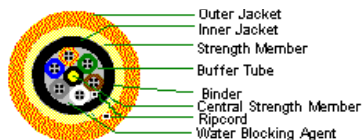


Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

I100455 Fiber - TrayOptic®



For more Information
please call

1-800-Belden1



General Description:

FiberExpress Tray Optic Cable, 4-Fiber, OM1 OFNR, Loose Tube, Indoor & Outdoor Rated with UV Resistant Orange PVC Jacket, Industrial Grade, Water-blocked with Gigabit Ethernet Grade fiber.

Physical Characteristics (Overall)

Product Family - Riser:

Fiber Count	# Fibers/ Tubes	Type	OM1 MM 62.5/125 1 Gb	OM2 MM 50/125 1 Gb	OM3 MM 50/125 10 Gb 300m	OM4 MM 50/125	OS2 - SM
2	2	PVC	I100255	I1A0255	I1C0255	I1E0255	I1W0255
4	4	PVC	I100455	I1A0455	I1C0455	I1E0455	I1W0455
6	6	PVC	I100655	I1A0655	I1C0655	I1E0655	I1W0655
8	4	PVC	I400855	I4A0855	I4C0855	I4E0855	I4W0855
12	6	PVC	I601255	I6A1255	I6C1255	I6E1255	I6W1255
18	6	PVC	I601855	I6A1855	I6C1855	I6E1855	I6W1855
24	6	PVC	I602455	I6A2455	I6C2455	I6E2455	I6W2455
36	6	PVC	I603655	I6A3655	I6C3655	I6E3655	I6W3655
48	12	PVC	I604855	I6A4855	I6C4855	I6E4855	I6W4855
60	12	PVC	I606055	I6A6055	I6C6055	I6E6055	I6W6055
72	12	PVC	I607255	I6A7255	I6C7255	I6E7255	I6W7255
2	2	CPE	I100266	I1A0266	I1C0266	I1E0266	I1W0266
4	4	CPE	I100466	I1A0466	I1C0466	I1E0466	I1W0466
6	6	CPE	I100666	I1A0666	I1C0666	I1E0666	I1W0666
8	4	CPE	I400866	I4A0866	I4C0866	I4E0866	I4W0866
12	5	CPE	I601266	I6A1266	I6C1266	I6E1266	I6W1266
18	6	CPE	I601866	I6A1866	I6C1866	I6E1866	I6W1866
24	6	CPE	I602466	I6A2466	I6C2466	I6E2466	I6W2466
36	6	CPE	I603666	I6A3666	I6C3666	I6E3666	I6W3666
48	12	CPE	I604866	I6A4866	I6C4866	I6E4866	I6W4866
60	12	CPE	I606066	I6A6066	I6C6066	I6E6066	I6W6066
72	12	CPE	I607266	I6A7266	I6C7266	I6E7266	I6W7266

Fiber Type: 62.5/125/250 Micron

Number of Fibers: 4

Core Diameter: 62.5 +/- 2.5

Core Non-Circularity: 5#37; Maximum

Clad Diameter: 125 +/- 2

Clad Non-Circularity: 1#37; Maximum

Primary Coating Material: Acrylate

Primary Coating Diameter: 245 +/- 10

Buffer Tube Diameter: 1.9

Buffer Tube Material: Flame Retardant Thermoplastic

Buffer Tube Filling Material: Synthetic Thixotropic Gel

Buffer Tube Color Code Chart:

Number	Color
1	Blue

Core-clad Offset: 1.5 Microns Maximum

Inner Jacket

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Color:	Orange
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Overall Cable

Overall Cabling Fillers:	PVC
Overall Nominal Diameter:	10.922 mm

Mechanical Characteristics (Overall)

Storage Temperature Range:	-40°C To +70°C
Installation Temperature Range:	-20°C To +60°C
Operating Temperature Range:	-40°C To +70°C
Bulk Cable Weight:	136.914 Kg/Km
Min. Bend Radius/Minor Axis:	218.440 mm
Min. Bend Radius for Long Term Application:	165.100 mm
Crush Resistance:	Passes TIA/EIA 455-41; 2000 N/cm
Impact Resistance:	Passes TIA/EIA 455-25; 2000 Impacts @ 1.6 N-m
Solar Radiation Resistance:	High
Water Penetration:	Passes TIA/EIA 455-82
Compound Flow:	Passes TIA/EIA 455-81
Max. Load for Installation:	2668.920 N
Max. Load for Long Term Application:	800.676 N
Proof Test:	100 kpsi

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	OFNR
CEC/C(UL) Specification:	OFNR
EU Directive 2011/65/EU (ROHS II):	Yes
IEEE Specification:	802.3Z
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	Suitable for installation in trays per NFPA 70.

Flame Test

C(UL) Flame Test:	FT4
IEEE Flame Test:	1202, IEEE 383 Vertical Tray Flame Test (70,000 BTU)

Plenum/Non-Plenum

Plenum (Y/N):	No
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Optical Characteristics (Overall)

Maximum Attenuation @ 850nm:	3.5 dB/km
Maximum Attenuation @ 1300nm:	1.2 dB/km
Point Loss @ 850nm & 1300nm:	0.2
Minimum Bandwidth @ 850nm:	200 MHz*km
Minimum Bandwidth @ 1300nm:	500 MHz*km
Refractive Index @ 850nm:	1.496
Refractive Index @ 1300nm:	1.491
Numerical Aperature:	.275
Maximum Gigabit Ethernet Length @ 850nm:	330 meters



METRIC MEASUREMENT VERSION

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Maximum Gigabit Ethernet Length @ 1300nm: 550 meters

Related Documents:

[Loose Tube Trayoptic Cable.pdf](#) - Loose Tube Trayoptic Cable

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
I100455	1 FT	0.104 LB	ORANGE		REPLACED BY FD1T004RF

Revision Number: 4 Revision Date: 08-04-2014

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